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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/728,196	11/30/2000	Ivan Chow	IDF 1422 (4000-00400)	3598

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EXAMINER
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ANYA, CHARLES E

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/728,196

Applicant(s)

CHOW ET AL.

Examiner

Charles E Anya

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– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3/MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

1. Claims 1-10 is pending in this application.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,085,030 to Whitehead et al. in view of U.S. Pat. No. 6,044,379 to Callsen.**

4. As to claim 1, Whitehead teaches a computer-implemented method for implementing a trader service having an offer space made up of bindings between the service types and interfaces and properties associated with the service types (figure 2 Col. 8 Ln. 3 – 14, figure 4 Col. 10 Ln. 16 – 40), the method comprising: (a) creating a trader service, the trader service being arranged to store the offer space in a persistent manner such that when the trader service is restarted the offer space is rebuilt without any loss of information (Col. 7 Ln. 55 – 67) and (b) creating at least one storage mechanism arranged to persistently store the offer space (Col. 7 Ln. 55 – 67).

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5. Whitehead is silent with reference to the at least one storage mechanism comprising a directory service using a hierarchical object-oriented information model.

6. Callsen teaches the at least one storage mechanism comprising a directory service using a hierarchical object-oriented information model (Col. 5 Ln. 34 – 45, Col. 6 Ln. 5 – 23).

7. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Callsen and Whitehead because the teaching of Callsen would improve the system of Whitehead by providing a means of traversing a table of bindings (Col. 5 Ln. 37 – 40).

8. As to claim 2, Whitehead teaches a computer-implemented method as recited in claim 1 wherein the directory service is compliant with LDAP version 2 (Col. 7 Ln. 55 – 67).

9. As to claim 3, Callsen teaches a computer-implemented method as recited in claim 2 the method further comprising: creating a data interface for interacting with the directory service, wherein such interaction comprises the use of protocol compliant with LDAP version 2 (Col. 5 Ln. 28 – 45, Col. 5 – 23: NOTE: since Corba Services specification can used to implement name services (e.g. LDAP version 2), the data interface of Callsen would inherently interact using LDAP).

10. As to claim 4, Whitehead teaches a computer-implemented method as recited in claim 3 wherein the trader service is compliant with CORBA CosTrader Specification (Col. 10 Ln. 1 – 15).

11. As to claim 5, Whitehead teaches a trader service within a computer system, the trader service being arranged to persistently store an offer space made a of bindings between the service types and interfaces and properties associated with the service types (figure 2 Col. 8 Ln. 3 – 14, figure 4 Col. 10 Ln. 16 – 40), the trader service comprising: (a) at least one storage mechanism arranged to store the offer space, wherein the at least one storage mechanism comprises a directory service (Col. 7 Ln. 55 – 67).

12. Whitehead is silent with reference to the at least one storage mechanism comprising a directory service using a hierarchical object-oriented information model and (b) a data store interface for interacting with the directory service, wherein such interaction comprises the use of protocol complaint with LDAP version 2.

13. Callsen teaches the at least one storage mechanism comprising a directory service using a hierarchical object-oriented information model (Col. 5 Ln. 34 – 45, Col. 6 Ln. 5 – 23) and (b) a data store interface for interacting with the directory service, wherein such interaction comprises the use of protocol complaint with LDAP version 2 (Col. 5 Ln. 28 – 45: NOTE: since Corba Services specification can used to implement name services (e.g. LDAP version 2), the data interface of Callsen would inherently interact using LDAP).

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14. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Callsen and Whitehead because the teaching of Callsen would improve the system of Whitehead by providing a means of traversing a table of bindings (Col. 5 Ln. 37 – 40)

15. As to claims 6 and 8, see the rejection of claim 5.

16. As to claims 7,9 and 10, see the rejection of claim 3.

### ***Response to Arguments***

17. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E Anya whose telephone number is (703) 305-3411. The examiner can normally be reached on M-F (8:30-6:00) First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, An Meng-Ai can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles E Anya  
Examiner  
Art Unit 2126

cea.



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SUPERVISORY PATENT EXAMINER  
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